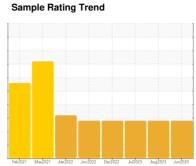


OIL ANALYSIS REPORT





Machine Id VILTER C

Compressor

VILTER BRAND (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

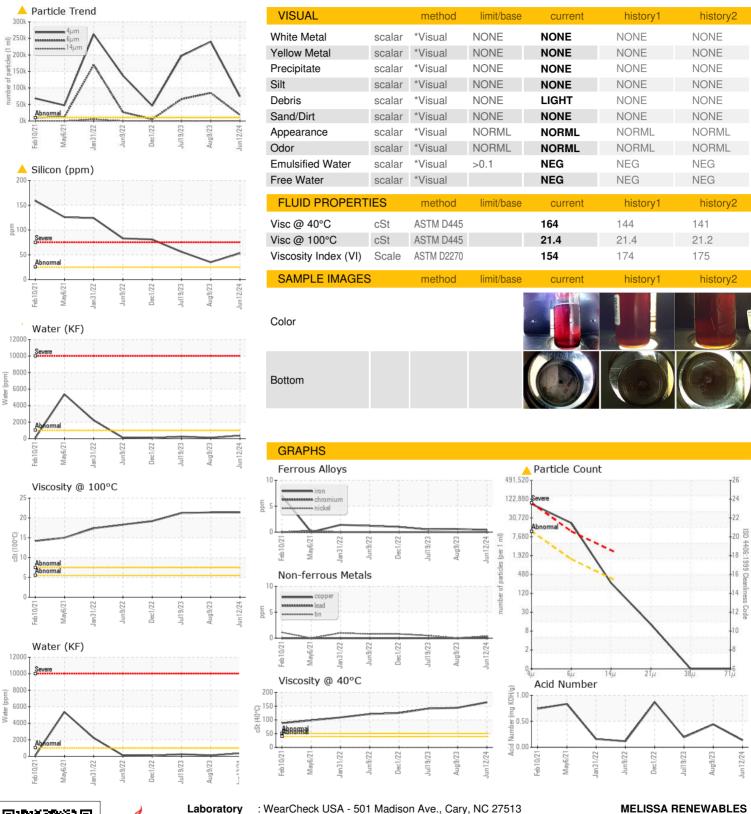
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Feb2021 /	May2021 Jan2022 Jun20	22 Dec2022 Jul2023 Aug2023	Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60002188	TO60001319	TO60000429
Sample Date		Client Info		12 Jun 2024	09 Aug 2023	19 Jul 2023
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	Filtered	Filtered
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	0	0
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	5	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		1	3	0
Zinc	ppm	ASTM D5185m		<1	0	0
Sulfur	ppm	ASTM D5185m		5880	4366	6225
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	53	△ 35	△ 56
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.1	0.035	0.011	0.024
ppm Water	ppm	ASTM D6304	>1000	355	117.6	249.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	^ 74549	<u></u> 240061	<u>▲</u> 196951
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>▲</u> 85004	<u>▲</u> 66068
Particles >14μm		ASTM D7647	>320	226	107	35
Particles >21µm		ASTM D7647	>80	11	12	3
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	<u>23/21/15</u>	<u>\$\rightarrow\$ 25/24/14</u>	<u>△</u> 25/23/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.134	0.44	0.192



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06211732 Unique Number : 11084596

: TO60002188

Received : 17 Jun 2024 **Tested** : 18 Jun 2024 Diagnosed

: 18 Jun 2024 - Don Baldridge

Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

US 75454 Contact: BILL PALMER bpalmer@morrowenergy.com T: (972)529-8442

3820 SAM RAYBURN HWY

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: MELMELTX [WUSCAR] 06211732 (Generated: 06/22/2024 01:22:13) Rev: 1

Contact/Location: BILL PALMER - MELMELTX

MELISSA, TX